IMPROVEMENTS TO ROADS AND DRAINS AT BAGALAGUNTE OLD VILLAGE HARIJANA COLONY IN WAR NO.14 BAGALAGUNTE, DASARAHALLI SUB-DIVISION.

SL.NO. 08, G.O. NO. 90 (PACKAGE NO.-DHZ 01)

Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
1	Removing and resetting of footpath slab Item No 37.56										
	Removing and resetting										
				Sqm							
	6th Cross Road	0.00	95.00		2	95.00	0.90		171.00		
	Venugopal Temple Road	0.00	90.00		2	90.00	0.90		162.00		
	Oni Road	0.00	115.00		1	115.00	0.90		103.50		
	Lake Road	0.00	175.00		1	175.00	0.90		157.50		
	Maramma Temple Road LHS	0.00	85.00		1	85.00	0.75		63.75		
		0.00	130.00		1	130.00	0.90		117.00		
	Maramma Temple Road RHS	0.00	210.00		1	210.00	1.20		252.00		
								Total	**1026.75**	**208.82**	**214405.94**
2	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to<tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 2.00 km and complete as per specifications. \ MORTH Specification No.301 Item No 19.14										
	Excavation/Desilting For Drain										
				Cum							
	6th Cross Road	0.00	95.00		2	95.00	0.60	0.60	68.40		
	Venugopal Temple Road	0.00	90.00		2	90.00	0.60	0.60	64.80		
	Oni Road	0.00	115.00		1	115.00	0.60	0.60	41.40		
	Lake Road	0.00	175.00		1	175.00	0.60	0.60	63.00		
	Maramma Temple Road LHS	0.00	85.00		1	85.00	0.45	0.60	22.95		
		0.00	130.00		1	130.00	0.60	0.60	46.80		
	Maramma Temple Road RHS	0.00	210.00		1	210.00	0.60	0.60	75.60		
								Total	**382.95**	**43.46**	**16643.01**
3	KSRRB300-1. Earthwork excavation by manual means for roads, drains Cum & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Item No 19.1										
	Earthwork for New Drains										
				Cum							
	Lake Road	0.00	80.00		1	80.00	1.20	1.10	105.60		
	Cross Road	0.00	75.00		2	75.00	1.20	1.10	198.00		
	Towards St Johns School	0.00	233.00		2	233.00	1.20	1.10	615.12		
	2nd Main Road Narashimayya Badavane	0.00	40.00		1	40.00	1.20	1.10	52.80		
	Earthwork for Culverts										
				Cum							
	6th Cross Road	0.00	6.00		1	6.00	1.80	1.50	16.20		
		0.00	6.20		1	6.20	1.80	1.50	16.74		
	Oni Road Part 2	0.00	8.50		1	8.50	1.80	1.50	22.95		
		0.00	7.50		1	7.50	1.80	1.50	20.25		
		0.00	5.00		1	5.00	1.80	1.50	13.50		
	Lake Road	0.00	6.00		1	6.00	1.80	1.50	16.20		
		0.00	5.50		1	5.50	1.80	1.50	14.85		
	St Johns School Road LHS	0.00	7.50		1	7.50	1.50	1.20	13.50		
		0.00	5.50		1	5.50	1.50	1.20	9.90		
		0.00	5.70		1	5.70	1.50	1.20	10.26		
		0.00	5.50		1	5.50	1.50	1.20	9.90		
	Cross Road (Center)	0.00	6.00		1	6.00	1.80	1.20	12.96		
								Total	**1148.73**	**137.80**	**158294.80**

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Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete Cum of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1,4.2 Item No 4.2										
	New Drains										
				Cum							
	Lake Road	0.00	80.00		1	80.00	0.90	0.10	7.20		
	Cross Road	0.00	45.00		2	45.00	0.90	0.10	8.10		
	Towards St Johns School	0.00	233.00		2	233.00	0.90	0.10	41.94		
	2nd Main Road Narashimayya Badavane	0.00	40.00		1	40.00	0.90	0.10	3.60		
	Culverts										
				Cum							
	6th Cross Road	0.00	6.00		1	6.00	1.50	0.15	1.35		
		0.00	6.20		1	6.20	1.50	0.15	1.40		
	Oni Road Part 2	0.00	8.50		1	8.50	1.50	0.15	1.91		
		0.00	7.50		1	7.50	1.50	0.15	1.69		
		0.00	5.00		1	5.00	1.50	0.15	1.13		
	Lake Road	0.00	6.00		1	6.00	1.50	0.15	1.35		
		0.00	5.50		1	5.50	1.50	0.15	1.24		
	St Johns School Road LHS	0.00	7.50		1	7.50	1.20	0.15	1.35		
		0.00	5.50		1	5.50	1.20	0.15	0.99		
		0.00	5.70		1	5.70	1.20	0.15	1.03		
		0.00	5.50		1	5.50	1.20	0.15	0.99		
	Cross Road (Center)	0.00	6.00		1	6.00	1.50	0.15	1.35		
								Total	**76.60**	**5714.97**	**437786.70**
5	Providing and laying in position reinforced cement Cum concrete of Design Mix M25 with OPC @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008 Item No 4.12										
	M25 Concrete - For Slabs (Site in-Cast)										
				Cum							
	Oni Road	0.00	115.00		1	115.00	1.50	0.10	17.25		
	M25 Concrete - For Drain Raft										
				Cum							
	Lake Road	0.00	80.00		1	80.00	0.90	0.15	10.80		
	Cross Road	0.00	45.00		2	45.00	0.90	0.15	12.15		
	Towards St Johns School	0.00	233.00		2	233.00	0.90	0.15	62.91		
	2nd Main Road Narashimayya Badavane	0.00	40.00		1	40.00	0.90	0.15	5.40		
	Culverts Raft										
				Cum							
	6th Cross Road	0.00	6.00		1	6.00	1.50	0.25	2.25		
		0.00	6.20		1	6.20	1.50	0.25	2.33		
	Oni Road Part 2	0.00	8.50		1	8.50	1.50	0.25	3.19		
		0.00	7.50		1	7.50	1.50	0.25	2.81		
		0.00	5.00		1	5.00	1.50	0.25	1.88		
	Lake Road	0.00	6.00		1	6.00	1.50	0.25	2.25		
		0.00	5.50		1	5.50	1.50	0.25	2.06		
	St Johns School Road LHS	0.00	7.50		1	7.50	1.20	0.25	2.25		
		0.00	5.50		1	5.50	1.20	0.25	1.65		
		0.00	5.70		1	5.70	1.20	0.25	1.71		
		0.00	5.50		1	5.50	1.20	0.25	1.65		
	Cross Road (Center)	0.00	6.00		1	6.00	1.50	0.25	2.25		
	Drain Wall										
				Cum							
	Lake Road	0.00	80.00		1*2	80.00	0.15	0.60	14.40		
	Cross Road	0.00	45.00		2*2	45.00	0.15	0.60	16.20		
	Towards St Johns School	0.00	233.00		2*2	233.00	0.15	0.80	111.84		

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Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
	2nd Main Road Narashimayya Badavane	0.00	40.00		1*2	40.00	0.15	0.60	7.20		
	Culverts										
				Cum							
	6th Cross Road	0.00	6.00		1*2	6.00	0.25	0.90	2.70		
		0.00	6.20		1*2	6.20	0.25	0.90	2.79		
	Oni Road Part 2	0.00	8.50		1*2	8.50	0.25	0.90	3.83		
		0.00	7.50		1*2	7.50	0.25	0.90	3.38		
		0.00	5.00		1*2	5.00	0.25	0.90	2.25		
	Lake Road	0.00	6.00		1*2	6.00	0.25	0.90	2.70		
	St Johns School Road LHS	0.00	7.50		1*2	7.50	0.25	0.90	3.38		
		0.00	5.50		1*2	5.50	0.25	0.90	2.48		
		0.00	5.70		1*2	5.70	0.25	0.90	2.57		
		0.00	5.50		1*2	5.50	0.25	0.90	2.48		
	Cross Road (Center)	0.00	6.00		1*2	6.00	0.25	0.90	2.70		
								Total	**315.65**	**5775.37**	**1823009.98**
6	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2										
	Centering - For Slabs (Site in-Cast)										
				Sqm							
	Oni Road	0.00	115.00		1	115.00		0.60	69.00		
	Centering for Drain				2	115.00		0.10	23.00		
				Sqm							
	Lake Road	0.00	80.00		1*4	80.00		0.60	192.00		
	Cross Road	0.00	45.00		2*4	45.00		0.60	216.00		
	Towards St Johns School	0.00	233.00		2*4	233.00		0.80	1491.20		
	2nd Main Road Narashimayya Badavane	0.00	40.00		1*2	40.00		0.60	48.00		
	Centering for Culverts			**Sqm**							
	6th Cross Road	0.00	6.00		1*4	6.00		0.90	21.60		
		0.00	6.20		1*4	6.20		0.90	22.32		
	Oni Road Part 2	0.00	8.50		1*4	8.50		0.90	30.60		
		0.00	7.50		1*4	7.50		0.90	27.00		
		0.00	85.00		1*4	5.00		0.90	18.00		
	Lake Road	0.00	6.00		1*4	6.00		0.90	21.60		
	St Johns School Road LHS	0.00	7.50		1*4	7.50		0.90	27.00		
		0.00	5.50		1*4	5.50		0.90	19.80		
		0.00	5.70		1*4	5.70		0.90	20.52		
		0.00	5.50		1*4	5.50		0.90	19.80		
	Cross Road (Center)	0.00	6.00		1*4	6.00		0.90	21.60		
								Total	**2289.04**	**379.48**	**868644.90**
7	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. workincluding straightening, cutting, bending, hooking, placing in position,lapping and/or welding wherever required, tying with binding wire andanchoring to measured and paid) cost of materials, labour, HOM complete as per disign (laps, hooks and wastage shall not be & 220 Item No 28.8.2										
	Quantity at 60kg /Cum of M25 concrete for Slabs (Site in Cast)	Drain Qty /17.25		**Tonne**					1.0		
	Quantity at 65kg /Cum of M25 concrete for Drains	Drain Qty /240.9		**Tonne**					15.1		
	Quantity at 90kg /Cum of M25 concrete for Culverts	Culvert Qty /53.7		**Tonne**					4.74		
								Total	**20.85**	**72326.98**	**1507786.09**
8	Providing and constructing granite I trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13										
	SSM for Flagging Coarse										
				Cum							
	Oni Roads	0.00	115.00		2	115.00	0.45	0.23	23.81		
								Total	**23.81**	**4763.64**	**113398.45**

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Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
9	KSRB 4-1.1: Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials,labour, HOM curing complete as per specificationsSpecification No. KBS 4.1,4.2										
	Coping for Drain										
				Cum							
	Oni Roads	0.00	115.00		2	115.00	0.45	0.10	10.35		
	Maramma Temple Road	0.00	210.00		2*2	210.00	0.15	0.20	25.20		
								Total	**35.55**	**5599.98**	**199079.29**
10	Providing ruled pointing 20mm deep, after rak Coursed stone masonry with cement mortar, cost of materials, lab depth of 20mm nicely lining, includingUr> HOM curing complete as per specifications Item No 34.13										
	Pointing										
				Sqm							
	Oni Roads	0.00	115.00		2	115.00		0.75	172.50		
								Total	**172.50**	**49.06**	**8462.85**
11	Providing and laying pre-cast drain cover slabs of 100mm thickness in C.M (1:3) including cost and of all materials, labour,curing transportaion loading and unloading etc. as per directions of the Engineer-in-charge of the work.(date rate approved)										
	100mm Slabs For Missing Slabs										
				Sqm							
	35% of Lake Road	0.00	62.50		2	62.50	0.90		112.50		
	40%of Maramma Temple Road	0.00	164.00		2	164.00	0.90		295.20		
	40% of 6th Cross Road	0.00	38.00		2	38.00	0.90		68.40		
	30% of Venugopal Temple Road	0.00	27.00		2	27.00	0.90		48.60		
	Cross Road	0.00	45.00		2	45.00	0.90		81.00		
	Towards St Johns School	0.00	233.00		2	233.00	0.90		419.40		
	2nd Main Road Narashimayya Badavane	0.00	40.00		1	40.00	0.90		36.00		
								Total	**1061.10**	**1615.00**	**1713676.50**
12	Providing and laying pre-cast drain cover slabs of 250mm thickness in C.M (1:3) including cost and of all materials, labour,curing transportaion loading and unloading etc. as per directions of the Engineer-in-charge of the work.(date rate approved)										
	250mm Slabs For Culverts										
				Sqm							
	6th Cross Road	0.00	6.00		1	6.00	1.50		9.00		
		0.00	6.20		1	6.20	1.50		9.30		
	Oni Road Part 2	0.00	8.50		1	8.50	1.50		12.75		
		0.00	7.50		1	7.50	1.50		11.25		
		0.00	5.00		1	5.00	1.50		7.50		
	Lake Road	0.00	6.00		1	6.00	1.50		9.00		
		0.00	6.00		1	5.50	1.50		8.25		
	St Johns School Road LHS	0.00	7.50		1	7.50	1.20		9.00		
		0.00	5.50		1	5.50	1.20		6.60		
		0.00	5.70		1	5.70	1.20		6.84		
		0.00	5.50		1	5.50	1.20		6.60		
	Cross Road (Center)	0.00	6.00		1	6.00	1.50		9.00		
								Total	**105.09**	**5418.00**	**569377.62**
13	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottomwidth 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Item No 5.30										
	Kerb Stones										
				Nos							
	Oni Road	0.00	115.00		2	115.00			512		
	50% of Maramma Temple Road	0.00	205.00		2	205.00			912		
								Total	**1424.00**	**435.84**	**620636.16**
14	Removing and resetting of kerb stones Item No 37.57										
	Removing and Resetting for Kerb Stone										
				m							
	50% of Maramma Temple Road	0.00	205.00		2	205.00			912		
								Total	**912.00**	**104.94**	**95705.28**

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Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
15	KSRRB 800-1. Painting two coats after filling the surface with synthetic Sqm enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Item No 24.1										
	Painting for Kerb Stone										
				Sqm							
	Oni Road	0.00	115.00		2	115.00		0.40	92		
	Maramma Temple Road	0.00	410.00		2	410.00		0.40	328		
								Total	420.00	84.80	35616.00
16	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick Sqm along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM complete as per specifications. MORTH I Chapter 3 Item No 19.56										
	Road formation			Sqm							
	6th Cross Road	0.00	95.00		2	95.00	1.00		190.00		
	Lake Road	0.00	175.00		2	175.00	1.00		350.00		
	Cross Road	0.00	75.00		1	75.00	6.24		467.64		
								Total	1007.64	41.34	41655.84
17	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.MORTH Specification No.301 (KPWD SR 2018-19, Page No.143, Item No.19.14)										
	Road formation			Cum							
	6th Cross Road	0.00	95.00		2	95.00	1.00	0.15	28.50		
	Lake Road	0.00	175.00		2	175.00	1.00	0.15	52.50		
	Oni Road Part 2	0.00	70.00		2	70.00	1.00	0.15	21.00		
	Cross Road	0.00	75.00		1	75.00	6.24	0.15	70.20		
								Total	172.20	149.46	25737.01
18	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding0.02 cum in volume and stock piling at designated locations and disposalof dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications.MORTH Specification No. 202 Item No 18.47										
	For Damage CC Road			Cum							
	Oni Road	0.00	115.00		1	115.00	6.80	0.15	117.30		
								Total	117.30	952.94	111779.86
19	KSRRB 300-48. Scarifying kankar I gravel I metal crust by mechanical means upto 150mm thick disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 Item No 19.54										
	For Damage CC Road			Sqm							
	Oni Road	0.00	115.00		1	115.00	6.80		782.00		
								Total	782.00	25.44	19894.08
20	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 Item no 20.18										
	Wet Mix			Cum							
	6th Cross Road	0.00	95.00		2	95.00	1.00	0.15	28.50		
	Lake Road	0.00	175.00		2	175.00	1.00	0.15	52.50		
	Oni Road	0.00	115.00		1	115.00	6.80	0.15	117.30		
	Oni Road Part 2	0.00	70.00		1	70.00	6.30	0.15	66.15		
	Cross Road	0.00	75.00		1	75.00	6.24	0.25	117.00		
								Total	381.45	2001.28	763388.26

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Sl No	Description of work	Chainage From	Chainage To	Unit	No	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
21	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.Clause 502 of MORTH V revision item No 21.6										
	Primer Coat			**Sqm**							
	6th Cross Road	0.00	95.00		2	95.00	1.00		190.00		
	Lake Road	0.00	175.00		2	175.00	1.00		350.00		
	Oni Road	0.00	115.00		1	115.00	6.80		782.00		
	Oni Road Part 2	0.00	70.00		1	70.00	6.30		441.00		
	Cross Road	0.00	75.00		1	75.00	6.24		468.00		
								Total	**2231.00**	**33.92**	**75675.52**
22	KSRRB 500-9. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications. Clause 503 of MORTH V revision Item No 21.2										
	Tack Coat			**Sqm**							
	6th Cross Road	0.00	95.00		2	95.00	1.00		190.00		
	Lake Road	0.00	175.00		2	175.00	1.00		350.00		
	Maramma Temple Road	0.00	410.00		1	410.00	7.10		2911.00		
	Oni Road	0.00	115.00		1	115.00	6.80		782.00		
	Oni Road Part 2	0.00	70.00		1	70.00	6.30		441.00		
	Cross Road	0.00	75.00		1	75.00	6.25		468.75		
								Total	**5142.75**	**21.20**	**109026.30**
23	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision Item No 21.2										
	Cleaning			**Sqm**							
	6th Cross Road	0.00	95.00		1	95.00	6.10		579.50		
	Lake Road	0.00	175.00		1	175.00	6.80		1190.00		
	Maramma Temple Road	0.00	410.00		1	410.00	7.10		2911.00		
	Venugopal Temple Road	0.00	95.00		1	95.00	6.30		598.50		
								Total	**5279.00**	**5.30**	**27978.70**
24	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading; premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and ialignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision Item No 21.17										
	DBM			**Cum**							
	6th Cross Road	0.00	95.00		2	95.00	1.00	0.05	9.50		
	Lake Road	0.00	175.00		2	175.00	1.00	0.05	17.50		
	Oni Road	0.00	115.00		1	115.00	6.80	0.05	39.10		
	Oni Road Part 2	0.00	70.00		1	70.00	6.30	0.05	22.05		
	Cross Road	0.00	75.00		1	75.00	6.24	0.05	23.40		
								Total	**111.55**	**7428.48**	**828646.94**
25	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications.Clause 507 of MORTH V revision as per IRC SP-53-2015 Item No 21.78.12										
	BC			**Cum**							
	6th Cross Road	0.00	95.00		1	95.00	6.10	0.04	23.18		
	Lake Road	0.00	175.00		1	175.00	6.80	0.04	47.60		
	Maramma Temple Road	0.00	410.00		1	410.00	7.10	0.04	116.44		
	Oni Road	0.00	115.00		1	115.00	6.80	0.04	31.28		
	Oni Road Part 2	0.00	70.00		1	70.00	6.30	0.04	17.64		
	Venugopal Temple Road	0.00	95.00		1	95.00	6.30	0.04	23.94		
	Cross Road	0.00	75.00		1	75.00	6.24	0.04	18.72		
								Total	**278.80**	**8699.42**	**2425398.30**

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BRUHAT BENGALURU MAHANAGARA PALIKE

Sl. No.	Description of Work	Chainage from	Chainage to	Unit	No.	Length (m)	Breadth (m)	Depth (m)	Quantity	Rate in Rs.	Amount in Rs.
26	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.			Sqm	16	0.31			4.99		
									4.99	71.03	354.31
										Total Cost	1,28,12,058.81
	KRIDL Charges @ 1 % On Construction cost										1,28,120.59
	GST at 12% of Tender Amount										15,37,447.06
	Preparation of DPR 1.0%										1,28,120.59
	PMC Charges & Quality Control Charges at 1.0%										1,28,120.59
	Miscellaneous & unforeseen charges										2,66,132.37
										GRAND TOTAL	1,50,00,000.00

1280181.58

Technically Sanctione for Rs. 150,00,000.00...
Rs. In words One Hundred Fifty Lakh Only
Under P.3227 SS 1738 Mukyamantrija Nava Bengaluru / Nava Nagarothana Yojane
Job Code No. DLL 20 00018
Registered as CE No. 62 /19-20 Subject to conditions contained in Enclosed Memo No CE/DP/TS /62/19-20 Dt: 16/11/2019
AE/JE. TA CE(D)

CERTIFICATE:

i This work comes within BBMP limits
ii Certified that Personaly Inspected the Work Spot.
iii Certified that the estimate is prepared based on CSR of PWD Bangalore Circle 2018-19.
iv Estimate is prepared Making Use of essential item of work as per site Conditions in safest way of Execution in most economical way.
v This work is not included in any other program of work.

For Alcon Consulting Engineers (India) Pvt. Ltd.,

Alcon Cousulting Engineers (I) Pvt. Ltd.,
Bengaluru

Assistant Engineer,
Ward No-14
BBMP

Assistant Executive Engineer,
~~Shettyhalli~~/Dasarahalli/~~PH/Heggnahalli~~
Division
BBMP

Exceutive Engineer,
Dasarahalli Division
BBMP

ADMINISTRATIVELY SANCTIONED FOR Rs. 150.00
(Rupees One Hundred Fifty Lakh Only
Under the Head of Account P.3227 SS 1738 Mukya mantrija Nava Bengaluru / Nava Nagarothana Yojane
Registered as no EE(D D.)/AS. 171/19-20 Subject to conditions contained in Enclosed Memo No EE/DP/AS /171/19-20 Dt: 14/11/2019
JE/AE. EE (DASARAHALLI) BBMP

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Rate Analysis

Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
1	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by mechanical means attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3 (PW,P & IWTD SR 2018-19, Item No. 19.56, Page No.146)		Sqm	146	19.56	39.00		39.00	2.34		41.34
2	KSRRB 300-48. Scarifying kankar / gravel / metal crust by mechanical means upto 150mm thick, disposal of stuff including cost of all labour charges, HOM complete as per specifications. MORTH / Chapter 3 (PW,P & IWTD SR 2018-19, Item No. 19.54, Page No.146)		Sqm	146	19.54	24.00		24.00	1.44		25.44
3	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1. 00 km and complete as per specifications. MORTH Specification No.301 (PW,P & IWTD SR 2018-19, Item No.19.14, Page No.143)		Cum	143	19.14	41.00		41.00	2.46		43.46
4	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications. MORTH I Chapter 3 (PW,P& IWTD SR 2018-19, Pg No 147 Item No.19.64)		Sqm	147	19.64	6.00		6.00	0.36		6.36
5	KSRRB 300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH I Chapter 3(PW,P& IWTD SR 2018-19, Pg No 143 Item No. 19.1)		Cum	143	19.1	130.00		130.00	7.80		137.80
6	Removing and resetting of kerb stones (PW,P & IWTD SR 2018-19, Item No.37.57, Page No.270)		mtr	270	37.57	99.00		99.00	5.94		104.94
7	Removing and resetting of footpath slab (PW,P & IWTD SR 2018-19, Item No.37.56, Page No.270)		sqm	270	37.56	197.00		197.00	11.82		208.82
8	Removing B.S. slab of Drain and stacking. (PW,P& IWTD SR 2018-19, Pg No 27 Item No. 5.32)		Sqm	27	5.32	99.00		99.00	5.94		104.94
9	KSRB 15.2.2 : Providing ruled pointing 20 mm deep to stone slab pavements with cement mortar 1:3, 20mm deep, after raking joints nicely lining, including cost of materials, labour, curing complete as per specifications. (PW,P& IWTD SR 2018-19 P-115, I-15.8)		sqm	115	15.8	46.28		46.28	2.78		49.06
	Basic Rate	46.00									
	Deduct Cement Rate as per SR 2018-19	-3.68		*Note - (0.015*50)/100)*490.63) =3.68							
	Sub Total	**42.32**									
	Add Cement Rate as per issue rate	3.96		*Note -(0.015*264.06)=3.96							

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
	Total	**46.28**									
10	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials separately complete as per specifications. MORTH Specification No. 202 (PW,P & IWTD SR 2018-19, Item No. 18.47, Page No.140)		Cum	140	18.47	899.00		899.00	53.94		952.94
11	Constructing un-reinforced, plain cement concrete for pavements using Grade concrete		Cum	176	22.6.1	5050.96		5050.96	303.06		5354.02
	Basic Rate	4916.00									
	Deduct Cement Rate as per SR 2018-19	-1766.27		*Note - (360/100)*490.63)							
	Sub Total	**3149.73**									
	Add Cement Rate as per issue rate	1901.23		*Note - (360/50)*264.06)							
	Total	**5050.96**									
12	**CONCRETE PAVEMENT** **KSRRB M600- Cement Concrete Pavements** KSRRB M600-1.Providing and Constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum over a prepared sub-base, coarse and fine aggregate conforming to IS: 383-2016,aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1 ,optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a hatching plant, transported to site,laid with a paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601of MORTH V Revision and IS 456 Table-5 -do- with OPC at 150 kg/cum and coarse aggregate 0.86cum, fine aggregate 0.58cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. (PW,P& IWTD SR 2018-19 P-174, I-22.1.2)		Cum	174	22.1.2	3721.24		3721.24	223.27		3944.51
	Basic Rate	3665.00									
	Deduct Cement Rate as per SR 2018-19	-735.95		*Note - (150/100)*490.63) =735.95							
	Sub Total	**2929.06**									
	Add Cement Rate as per issue rate	792.18		*Note - (150/50)*264.06) =792.18							
	Total	**3721.24**									
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision. (PW,P& IWTD SR 2018-19 P-153, I-20.6)		Cum	153	20.6	1750.00		1750.00	105.00		1855.00

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
13	KSRRB M400-17. Providing, laying, spreading and compacting Crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed material by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406. (PW,P& IWTD SR 2018-19, Pg No 155, Item No. 20.18)		Cum	155	20.18	1888.00		1888.00	113.28		2001.28
14	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and I or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Clause 501 of MORTH V revision (PW,P& IWTD SR 2018-19, Pg No 158, Item No. 21.2)		sqm	158	21.2	5.00		5.00	0.30		5.30
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. Clause 502 of MORTH V revision (PW,P& IWTD SR 2018-19, Pg No 158 Item No.21.6) Issue Rates As per Revised Rates Elect form 21-10-2019		Sqm	158	21.6	32.00		32.00	1.92		33.92
16	KSRRB 500-9. Providing and applying tack coat using 80/100 grade bitumen (VG10) on granular base such as WBM surfaces hot bitumen primed at 4 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision.(PW,P & IWTD Bengaluru Circle SR 2018-19, Item No.21.9 Page No.158). Issue Rates As per Revised Rates Elect form 21-10-2019		Sqm	158	21.9	20.00		20.00	1.20		21.20
17	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen (VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Clause 503 of MORTH V revision (PW,P& IWTD SR 2018-19 P-158, I-21.7). Issue Rates As per Revised Rates Elect form 21-10-2019		Sqm	158	21.7	12.00		12.00	0.72		12.72

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
18	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix towork site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 505 of MORTH V revision - do - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen(PW,P & IWTD Bengaluru Circle SR 2018-19, Item No. 160 Page No.21.17.6) Issue Rates As per Revised Rates Elect form 21-10-2019		Cum	160	21.17.6	7008.00		7008.00	420.48		7428.48
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015. -do- using 40-60 TPH capacity HMP with mechanical paver grading II(30-45mm) with 5.4% of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade} and 0.43% of plastomeric thermoplastics (waste plastic) (PW,P & IWTD Bengaluru Circle SR 2018-19, Item No. 171 Page No.21.78.12)		Cum	171	21.78.12	8207.00		8207.00	492.42		8699.42
20	KSRB 4-1.7: Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.69 cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2 (PW,P& IWTD SR 2018-19 P-13, I-4.7)		Cum	13	4.70	5391.48		5391.48	323.49		5714.97
	Basic Rate	5309.00									
	Deduct Cement Rate as per SR 2018-19	-1079.39				*Note - (220/100)*490.63) 1079.39					
	Sub Total	**4229.61**									
	Add Cement Rate as per issue rate	1161.86				*Note - (220/50)*264.06)=1161.86					
	Total	**5391.48**									
21	KSRRB M2200-5.12. Providing and laying Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.7 cum and fine aggregates @ 0.47 cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed-2008. i) Upto 5 m height. (PW,P& IWTD SR 2018-19 P-227, I-28.7.12)		Cum	227	28.7.12	5448.47		5448.47	326.91		5775.37
	Basic Rate	5321.00									
	Deduct Cement Rate as per SR 2018-19	-1668.14				*Note - (340/100)*490.63) =1668.14					
	Sub Total	**3652.86**									

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
	Add Cement Rate as per issue rate	1795.61		*Note - (340/50)*264.06) =1795.61							
	Total	**5448.47**									
22	KSRRB M2200-6. Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500(PW,P& IWTD SR 2018-19, Pg No 229 Item No.28.8.2)		Tonne	229	28.8.2	68233.00		68233.00	4093.98		**72326.98**
23	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (PW,P& IWTD SR 2018-19, Pg No 27 Item No.5.30)		Nos	27	5.30	411.17		411.17	24.67		**435.84**
	Basic Rate	408.00									
	Deduct Cement Rate as per SR 2018-19	-40.40		*Note - (8.235/100)*490.63 =40.40							
	Sub Total	**367.60**									
	Add Cement Rate as per issue rate	43.57		*Note - (0.165*264.06) =43.57							
	Total	**411.17**									
24	KSRRB M800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications,MORTH Chapter 8 (PW,P& IWTD SR 2018-19, Pg No 180, Item No. 24.1)		Sqm	180	24.1	80.00		80.00	4.80		**84.80**
25	Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges , curing and concrtee finished surface on both sides etc, and complete as per the directions of Enginner in charges. (Data Rate)		Sqm	Data Rate				1615.00			**1615.00**
26	KSRRB M2200-1 Providing weep holes in Brick masonry / Plain / Reinforced concrete abutment, wing wall / return wall with 100 mm dia AC pipe, extending through the full width of the structure with slope of 1V :20H towards drawing foce. Complete as per drawing and Technical Specifications including cost of materials, labour, HOM complete as per specifications. MORTH Specification No.2706 & 2200(PW,P& IWTD SR 2018-19 P-229, I-28.10)		Rmt	229	28.10	147.00		147.00	8.82		**155.82**

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
27	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20. MORTH Specification No. 202 (PW,P& IWTD SR 2018-19, Pg No 139 Item No.18.20)		Cum	139	18.20	390.00		390.00	23.40		413.40
28	KSRRB M200-26. Dismantling Kerb stone by manual means and disposal of dismantled materials with all lifts and complete as per specifications. MORTH Specification No. 202(PW,P& IWTD SR 2018-19, Pg No 141 Item No.18.49)		Rmt	141	18.49	12.00		12.00	0.72		12.72
29	KSRRB M300-19 Removal of unserviceable soil including excavation, loading and disposal but excluding replacement by suitable soil which shall be paid separately as per clause 300.5 complete as per specifications MORTH Specification No. 301. (PW,P& IWTD SR 2018-19, Pg No 144, Item No.19.20)		Cum	144	19.20	33.00		33.00	1.98		34.98
30	KSRRB M-100-1 Loading and Unloading of Stone Boulder / Stone aggregate / Sand Kanker / Moorum.KSRRB M100-1 : Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications.MORTH -100 / Chapter 1, (PW,P& IWTD SR 2018-19, Pg No 136, Item No.17.1)		Cum	136	17.1	57.00		57.00			57.00
31	KSRRB M100-4.1. Cost of haulage Excluding Loading and Unloading MORTH-100/Chapter 1 case-1 surface road (PW,P& IWTD SR 2018-19, Pg No 136, Item No.17.4)		t.km	136	17.4	2.00					
	For 26 km lead= 2x1.28x26 = 66.56		Cum			66.56		66.56			66.56
32	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. a) 40mm Jelly.		Cum	DR				1901			1901.00
33	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. b) 20mm Jelly.		Cum	DR				1901			1901.00
34	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. c) Coarse sand.		Cum	DR				2651			2651.00

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Sl.No	Specification		Unit	SR Page no	Item No.	Basic Rate in Rs.	Labour Charge in Rs.	Sub Total in Rs	6% Area weightage	Deduction of GST 12% on BWSSB Items	Net Rate (RS)
35	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. d) fine sand.		Cum	DR				2651			2651.00
36	Filling in foundation with granite/trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with lead up to 50m and lift 1.5m complete as per specifications. e) 12.5mm chips.		Cum	DR				1901			1901.00
37	Supplying, laying and jointing HDPE pipes of specified grade and conforming to IS 4984- 995 with latest amendments and conveyingto work site including loading and unloading at both destinations and rolling and lowering into trenches, laying true to line and jointing of pipes and specials, giving hydraulic test as per relevant ISS with all lead and lifts including encasing the pipe alround to a depth of not less than 15 cms. with soft gravel or selected earth available from the excavation, testing and commissioning. The rate is exclusive of required specials and fittings wherever necessary like saddle Tee, stub ends, flanged sets, bends, reducers etc. complete (Contractor will make his own arrangements for procuring water for testing) etc. for : HDPE Grade PE80-PN6.0, 630 mm dia. (Perforated Pipe for Rain Water Harvesting Pit) (BWSSB SR 2017-18, Pg No 121 Item No. 1.17 Code No. K010Q)		Rmt	BWSSB SR 2017-18 Pg. No. 121	Item No. 1.17 Code No. K010Q			12121.00		1298.68	10822.32
38	Providing of Geonets for Rain Water Harvesting pit on top of the filter media as specified in drawings or as approved by Engineer Incharge.		Sqm	DR				71.03			71.03
39	**Calculations for Waste Plastic** Plastic in Kgs=(BC Qty x Bitumen Content in Kgs x Percentage of Plastic to be added) =163.61 x 0.141x1000x(8/100) =1833.52Kgs										

AEE
T. Dasarahally Sub Division.

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